PLATE 15 OF 35 UNITED STATES COOK CREEK RESERVOIR QUADRANGLE OPEN-FILE REPORT DEPARTMENT OF THE INTERIOR MONTANA This report has not been edited for conformity with GEOLOGICAL SURVEY U.S. Geological Survey editorial standards or 7.5 MINUTE SERIES (TOPOGRAPHIC) 106°15′ 45°45′ stratigraphic nomenclature. R 44 E. R. 45 E. 18 14 22 24 20 **EXPLANATION** NON-FEDERAL COAL LAND-Land for which the Federal Government does not own the coal rights. _______ SL _______ STRIPPING-LIMIT LINE—Boundary for surface mining of the coal bed (in this quadrangle, the 500-foot 30 28 26 overburden isopach). Arrows point toward the area suitable for surface mining. Recovery factor of 85 percent within that area in this quadrangle. BOUNDARY OF COAL 5 FEET OR MORE THICK-Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal, and/or the 5-foot coal isopach. Arrows point toward area of coal 5 feet or more thick POINT OF MEASUREMENT ON COAL BED 32 34 T. 2 S. 34-mile radius Point of measuremen Indicated R(85%) 0.19 0 16 0 56 0.47 0 20 0.17 12 10 11 Inferred RB R(85%) resources 0.02 0.02 0.13 0 11 0.51 0.60 0.06 0 05 0.03 0.02 R(85%) 0.96 0.82 0.33 0.28 18 17 15 14 RB R(85%) 0.21 0.18 0.02 0.02 DIAGRAM SHOWING COMPONENT AREAS OF IDENTIFIED COAL RESOURCES-Shows arcuate R(85%) boundary lines enclosing areas of measured, indicated. 0 03 0.02 0.18 0.15 and inferred coal resources. Boundaries of areas are 0.92 dashed where projected from an adjacent quadrangle. 24 Areas of measured, indicated, or inferred resources may be present on this map without their outer boundaries being shown. 22 23 0.02 (Measured resources) 0.60 0.51 (Indicated resources) 0.03 0.02 (Inferred resources) IDENTIFIED COAL RESOURCES-Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part(s) of a section of Federal coal land within the stripping-limit line. Dash indicates no resources in that category. Reserve Base (RB) X the Recovery Factor (85 percent) = Reserves (R). (Measured resources) 0.06 (Indicated resources) (Inferred resources) IDENTIFIED COAL RESOURCES-Showing totals for Reserve Base (RB), in millions of short tons, for each 29 30 28 section or part(s) of a section of Federal coal land outside 27 26 25 the stripping-limit line. Dash indicates no resources in that category. NOTE: Recovery factors have not been established for underground development of coal in this quadrangle. Therefore, Reserves (R) were not calculated for the coal bed in areas outside the stripping-limit line. R. 44 E. R. 45 E. 12'30" (WILLOW CROSSING) 4775 II SW 106 07'30" Base map from U.S. Geological Survey, 1966 SCALE 1:24000 Compiled in 1977 To convert short tons to metric tons, multiply short tons by 7000 FEET 1 KILOMETER To convert feet to meters, multiply feet by 0.3048. To convert miles to kilometers, multiply miles by 1.61. MONTANA UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

COAL RESOURCE OCCURRENCE MAP OF THE COOK CREEK RESERVOIR QUADRANGLE, POWDER RIVER AND ROSEBUD COUNTIES, MONTANA BY COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979

AREAL DISTRIBUTION AND TONNAGE MAP OF IDENTIFIED RESOURCES OF THE LOWER SPLIT OF THE E COAL BED

PLATE 15

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